

CERES Ordering Tool

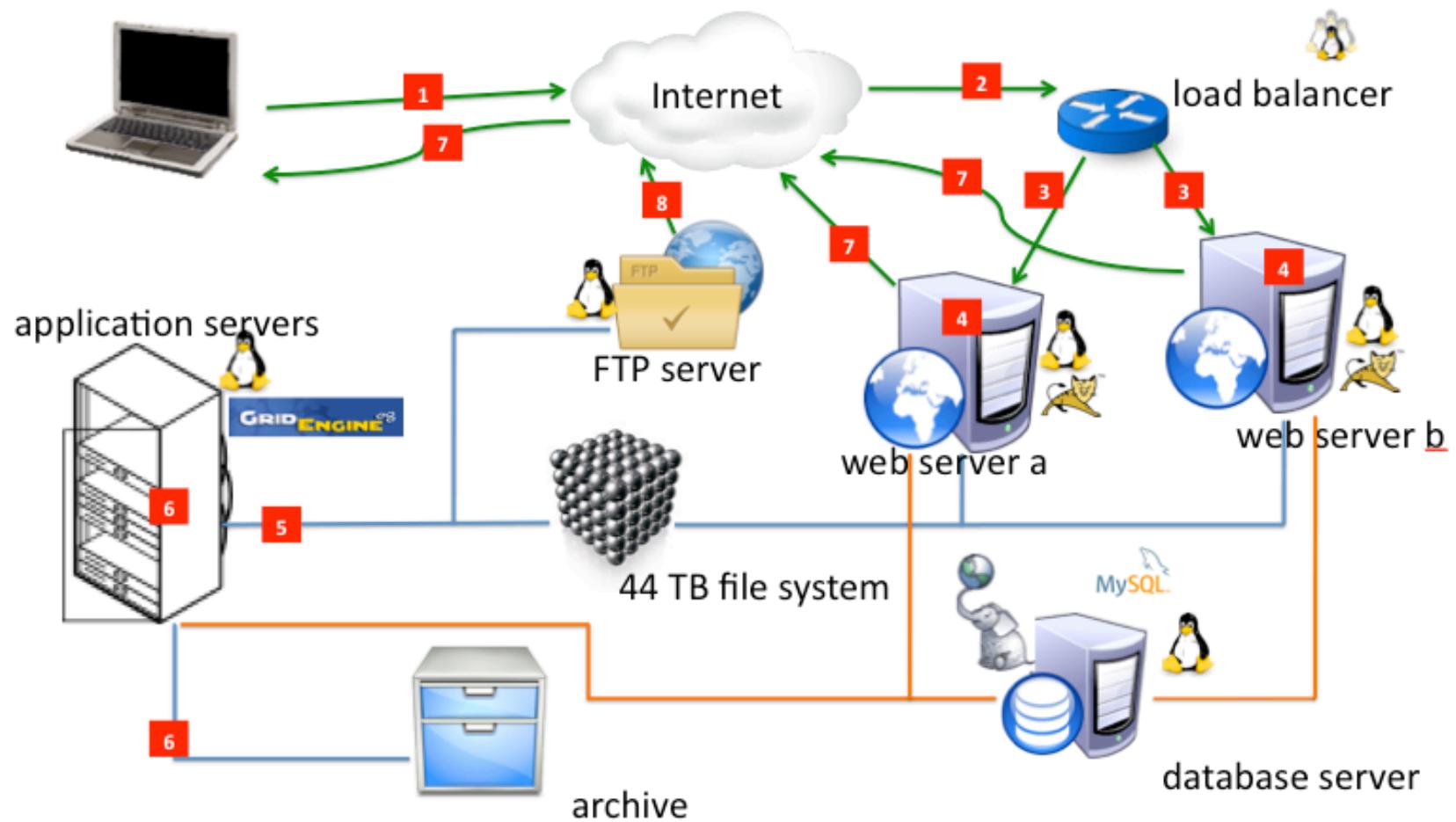
Highlights of its capabilities

Cristian Mitrescu, Churngwei Chu
Dave Doelling, Pamela Mlynczack

The birth of the CERES Ordering Tool

- The scope of the CERES Ordering Tool was to provide to developers and users a fast and easy way of accessing CERES Data by means of:
 - Visualization (or browsing), and
 - Subsetting (or ordering)
- Internet browsers (IE, Firefox, Safari, etc) have the capability of manipulating text and images (fast and in high volume) and are commonly used worldwide. Several other free applications can be used along with any modern browser.
- As such the Ordering Tool was developed around **Browsers** (that enable the users to send requests, receive responses and do some processing) and **Servers** (that receive requests, access/process data and relay the necessary response back to user's Browser).
- A whole suite of free software along with in-house programming was aimed at developing a specialized web-application that manipulates CERES data, focusing on scientific applications.

CERES Ordering Tool Architecture



<http://ceres.larc.nasa.gov/index.php>

The screenshot shows the official website for the Clouds and Earth's Radiant Energy System (CERES). The top header features the NASA logo and the text "National Aeronautics and Space Administration". Below the header is a banner with three Earth-like spheres representing different energy systems, with the word "CERES" prominently displayed. The main content area has a yellow header bar with "Home: CERES" and a red "Order Data" button highlighted with a red box. The left sidebar contains links for "Introduction", "Public Release", "Images & Articles", "Education Outreach", "Science Team Members", "Documentation", "CERES Meetings", "CERES Satellites", "Related Activities", "Sitemap", and "Contact Us". The main content area includes sections for "Who are we?", "What we do?", and a news feed. The footer contains links for various NASA policies and notices.

National Aeronautics and Space Administration

SEARCH CERES

Clouds and the Earth's Radiant Energy System

Home: CERES

Introduction

Public Release

Images & Articles

Education Outreach

Order Data

Science Team Members

Documentation

CERES Meetings

CERES Satellites

Related Activities

Sitemap

Contact Us

Who are we?

As part of the NASA Langley Science Directorate, the CERES Science, Data Management, Data Processing and Stewardship Teams are devoted to providing valuable Earth Radiation Budget data to the science community. The CERES experiment is one of the highest priority scientific satellite instruments developed for NASA's Earth Observing System (EOS). The first CERES instrument was launched in December of 1997 aboard NASA's Tropical Rainfall Measurement Mission (TRMM). CERES instruments are now collecting observations on three separate satellite missions, including the EOS Terra and Aqua observatories and now also on the NPOESS Preparatory Project (NPP) observatory.

CERES products include both solar-reflected and Earth-emitted radiation from the top of the atmosphere to the Earth's surface. Cloud properties are determined using simultaneous measurements by other EOS and NPP instruments such as the Moderate Resolution Imaging Spectroradiometer (MODIS) and the Visible and Infrared Sounder (VIRS). Analyses using CERES data, build upon the foundation laid by previous missions such as NASA Langley's Earth Radiation Budget Experiment (ERBE), leading to a better understanding of the role of clouds and the energy cycle in global climate change.

Your browser lacks a plugin required to view a Flash Video.
This content requires the Adobe Flash Player.[Get Flash](#)

What we do?

We provide these accurate data products and information to the public, educators, and scientists. The CERES Team has updated its web pages, added more information about the data, and developed a new data ordering tool for browsing, subsetting, and ordering the CERES products.

07/25/2012: NASA Video: Aqua CERES: Tracking Earth's Heat Balance

02/03/2012: "First Light" Taken by NASA's Newest CERES Instrument

01/26/2012: NASA-led Study Solves Case of Earth's "Missing Energy"

01/23/2012: Study plugs gap in global warming puzzle

12/06/2011: NPP Earth-Observing Instrument Takes First Test Scan

10/31/2011: NPP Launch Video, Images and Features

10/26/2011: NASA Video: NPP: The Five Instruments

09/06/2011: New Online: NPP Satellite Prevents Gap in Critical Climate Data

09/06/2011: New Online: CERES Continues Legacy of Cloud Study on NPP

Page Curator: Joanne Saunders
NASA Official: Dr. Norman Loeb
Page Last Modified: 05/04/2012 12:07

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+ Information Dissemination Priorities and Inventories

+ Privacy Policy and Important Notices
+ USA.gov
+ ExpectMore.gov
+ Multimedia Browser Plug-Ins
+ Comments or Questions?

NASA

CERES Web Page

- Info about CERES and CERES Products;
- Link to CERES Ordering Tool (Order data);
- Education Outreach;
- Documentation;
- Latest News;
- Related Activities;
- Contacts.

National Aeronautics and Space Administration

SEARCH CERES

CERES Data Products

To subset, visually browse, and download CERES data products in multiple file formats, click "Browse & Subset". For more information and documentation on a specific product, click on the "Data Product" name. Or as a quick reference, click on the ⓘ icon.

Access to the complete CERES archived HDF data products, [HDF Products](#)

Level 3B: Spatially (regional, global, etc.) and temporally (daily, monthly, etc) averaged fluxes where the net flux has been energy balanced.

Data Product (Information & Documentation)	Description	Parameter Resolution	Version/ Availability	Order Data
EBAF-TOA	Monthly and climatological averages of TOA clear-sky (spatially complete) fluxes, all-sky fluxes, and cloud radiative effect (CRE), where the TOA net flux is constrained to the ocean heat storage . Data Quality Summary	ⓘ	ⓘ	Browse & Subset
EBAF-Surface	Monthly and climatological averages of computed surface clear-sky fluxes, all-sky fluxes, and cloud radiative effect (CRE), consistent with the CERES EBAF-TOA fluxes. Data Quality Summary	ⓘ	ⓘ	Browse & Subset

Level 3: Spatially (regional, global, etc.) and temporally (daily, monthly, etc) averaged fluxes and clouds.

Data Product (Information & Documentation)	Description	Parameter Resolution	Version/ Availability	Order Data
SYN1deg	CERES geostationary (GEO) enhanced temporally interpolated TOA fluxes, MODIS and 3-hourly GEO cloud properties, MODIS aerosols, and computed TOA, surface and in-atmospheric (profile) fluxes consistent with the observed TOA fluxes, clouds and aerosols. Data Quality Summary	ⓘ	ⓘ	Browse & Subset
SSF1deg	CERES constant meteorology temporally interpolated TOA fluxes, MODIS clouds and aerosols. Data Quality Summary	ⓘ	ⓘ	Browse & Subset
ISCCP-D2like	CERES-MODIS and GEO daytime cloud properties stratified by ISCCP cloud types and in the similar D2 format. Data Quality Summary	ⓘ	ⓘ	Browse & Subset

Level 2: CERES instantaneous footprint level (20km nominal) fluxes and cloud properties.

Data Product (Information & Documentation)	Description	Parameter Resolution	Version/ Availability	Order Data
SSF	CERES observed TOA fluxes, MODIS clouds and aerosols, and parameterized surface fluxes. Terra Data Quality Summary ⓘ Aqua Data Quality Summary ⓘ	ⓘ	FOV*	ⓘ Browse & Subset

*FOV: Field-of-View Instantaneous footprint data.

Note: The Browse & Subset ordering tool will query for temporal and spatial resolutions.

Help Hints

- [Data ordering tool help page](#).
- [What's product do I use?](#)
- [CERES Data Product Information](#)
- [Data Product Processing Flowchart](#)
- [Input Data Sources Chart](#)
- [Geodetic Zonal Weights](#) (for Determining Global Means)
- [Ed2 vs Ed3 product comparison table](#)
- [Traditional CERES ordering pages](#) ⓘ (access to archived HDF files).
- [CERES Data Ordering Statistics](#) (LaRC network only).

Page Curator: Elizabeth Heckert
NASA Official: Dr. Norman Loeb
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+ Comments or Questions?

CERES Data Products Web Page

- Links to CERES Products Visualization and Ordering;
- Data Availability;
- Parameter Availability;
- Links to Documentation;
- Help links;
- CERES Statistics;
- Contacts.

CERES Ordering Tool - public web site

<http://ceres-tool.larc.nasa.gov/ord-tool/>

The screenshot shows the CERES Ordering Tool website. At the top left is the CERES logo, which features a stylized sun rising over a globe. The top right contains the title "CERES Ordering Tool" in yellow, along with links to "Data Products Page", "Change Password", "Log Out", and "Help". Below the header, the main title "CERES Ordering Tool" is centered. A list of product links follows: "EBAF TOA (Energy Balanced and Filled)", "EBAF Surface (Energy Balanced and Filled)", "SSF1deg", "SYN1deg", "SSFlevel2", "ISCCP Type 1", and "ISCCP Type 2". At the bottom left, there's a NASA logo and text: "NASA Official: David Doelling", "CERES Help: CERES Help Desk", and "Page Last Modified: 05/03/2012 13:10". The bottom right contains a column of links: "Freedom of Information Act", "Budgets, Strategic Plans and Accountability Reports", "The President's Management Agenda", "Inspector General Hotline", "Equal Employment Opportunity Data Posted Pursuant to the No Fear Act", "Information Dissemination Priorities and Inventories", "Privacy Policy and Important Notices", "USA.gov", "ExpectMore.gov", "Multimedia Browser Plug-Ins", and "Comments or Questions?".

CERES Ordering Tool - internal web site

<http://ceres-subset8.larc.nasa.gov/ord-tool/>

The screenshot shows the homepage of the CERES Internal Ordering and QC Tool. At the top left is the CERES logo, which includes a stylized sunburst over a globe. The top center features the title "CERES Internal Ordering and QC Tool". To the right of the title are links for "Data Products Page", "Change Password", "Log Out", and "Help". Below the header, a yellow banner displays a message: "This is NOT the public ordering site. Please use <http://ceres-tool.larc.nasa.gov/ord-tool/> to order available data." The main content area is divided into sections: "Forward Processing Products" (links to EBAF - TOA, EBAF - Surface, SSF1degLite, and SYN1degLite), "Internal QC/Testing Products" (links to SYN1deg and SSF level2), and a footer section containing NASA and government links.

CERES Internal Ordering and QC Tool

[Data Products Page](#) | [Change Password](#) | [Log Out](#) | [Help](#)

This is NOT the public ordering site.
Please use <http://ceres-tool.larc.nasa.gov/ord-tool/> to order available data.

Forward Processing Products

[EBAF - TOA - updated on May 22, 2012](#)
[EBAF - Surface - updated on October 2, 2012](#)
[SSF1degLite - updated on September 28, 2012](#)
[SYN1degLite - updated on October 15, 2012](#)

Internal QC/Testing Products

[SYN1deg - updated on August 21, 2012](#)
[SSF level2](#)

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CERES

CERES_EBAF-TOA_Ed2.6r Subsetting and Browsing

Data Products Page | Change Password | Log Out | Help

Alert: This is a test site. Please order data from <http://ceres-tool.larc.nasa.gov/ord-tool/>

Selection Page | My Orders

Parameters

TOA Fluxes | Click to select individual parameters
 TOA CRE Fluxes | Click to select individual parameters
 Solar Flux | Click to select individual parameters

Temporal Resolution

Monthly Mean
 Climate

Spatial Resolution

Regional (1° x 1° global grid)
 Zonal mean
 Global mean

North: 90
West: 0 | reset | 360 | East
-90
South

Map

Time Range

Available Time Range: 3/1/2000 to 12/31/2011.

From: 03 - 2000 (MM-YYYY) To: 12 - 2011 (MM-YYYY)

Email Address

cristian.mitrescu@nasa.gov

By providing your email address you will be informed of any future revisions of your download, product releases, newsletters, etc.

Visualize Data | Get Data | Add to Cart | Reset Selections

(for orders less than 2 GB)

Through a compact design, the **Selection Page** lets the user select from available parameters, choose the temporal resolution and spatial resolution, chose a satellite platform and a time range of interest.

When orders are pending or made, **My Orders** and **Order Status** informs the user about the completion of the files.

Visualize Data, Get Data or Add to Cart are options that a user can pursue when investigating CERES data.

Reset Selections then **Reload your Browser** ensures that you have loaded the latest version of the Ordering Tool.



CERES_EBAF-TOA_Ed2.6r Subsetting and Browsing

[Data Products Page](#) | [Change Password](#) | [Log Out](#) | [Help](#)

Alert: This is a test site. Please order data from <http://ceres-tool.larc.nasa.gov/ord-tool/>

[Selection Page](#)

[?](#)

[My Orders](#)

Parameters

			All Sky	Clear Sky			
			<input type="checkbox"/> Shortwave Flux	<input type="checkbox"/> Longwave Flux	<input type="checkbox"/> Net Flux	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> TOA Fluxes						
	<input checked="" type="checkbox"/> TOA CRE Fluxes						
	<input type="checkbox"/> Solar Flux						

Selected Fields: Click to Collapse

Longwave Flux

Incoming Solar Flux

Click to select/unselect **parameters**.
An info icon ("i") offers some information about categories and parameters.

Temporal Resolution

- Monthly Mean
 Climate

Spatial Resolution

- Regional (1° x 1° global grid)
 Zonal mean
 Global mean

North
90

West 0 360 East

-90
South



Map

Spatial Resolution

- Regional ($1^\circ \times 1^\circ$ global grid)
- Zonal mean
- Global mean

North
65.95

West -74.53 reset 127.27 East

-42.03
South

Apply Values to the Map

Hold your shift key while dragging a box



Ordering Data

Time Range

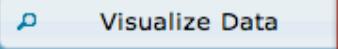
Available Time Range: 3/1/2000 to 12/31/2011.

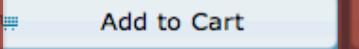
From: - (MM-YYYY) To: - (MM-YYYY)

Email Address

By providing your email address you will be informed of any future revisions of your download, product releases, newsletters, etc.

**Get Data**
(for orders less than 2 GB)

 Visualize Data

 Add to Cart

 Reset Selections

Add to Cart Procedure

CERES

View Shopping Cart

[Data Products Page](#) | [Change Password](#) | [Log Out](#) | [Help](#)

Alert: This is a test and QC site for internal use only. Please order data from <http://ceres-tool.larc.nasa.gov/ord-tool/>

Selection Page My Orders Shopping Cart (13.67 GB)

Item		Product Info	Satellite	Temporal Range	Spatial Coverage	Estimated Order Size
1	remove	show detail CERES_SYN1deg-lite_Ed2.6 save files as: default (2GB or less) <input type="button" value="▼"/>	TERRA	03/2000 to 06/2012	REGIONAL - Subset	13.08 GB
2	remove	show detail CERES_SYN1deg-lite_Ed2.6 save files as: <input checked="" type="checkbox"/> default (2GB or less) <input type="checkbox"/> yearly <input type="checkbox"/> monthly	TERRA	03/2000 to 06/2012	REGIONAL - Subset	575.43 MB
3	remove	show detail CERES_SYN1deg-lite_Ed2.6 save files as: default (2GB or less) <input type="button" value="▼"/>	-	01/CLIM to 12/CLIM	REGIONAL - Subset	18.66 MB

[Submit Order](#) [Remove All](#)

13.67 GB

Users may be able to select how to have subsetted files organized.

NASA Official: David Doelling
CERES Help: CERES Help Desk
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Add to Cart Procedure – Order placement

 **Report**

[Data Products Page](#) | [Change Password](#) | [Log Out](#) | [Help](#)

Your order has been submitted successfully.
Your order number is: CERES_2012-10-18:194
You will be notified by email when your order is completed.
You can check the status of your orders at any time by using our Order Status function ([click here](#)).
Thank you for using our CERES Ordering Tool.



NASA Official: David Doelling CERES Help: CERES Help Desk Page Last Modified: 05/03/2012 13:10	+ Freedom of Information Act + Budgets, Strategic Plans and Accountability Reports + The President's Management Agenda + Inspector General Hotline + Equal Employment Opportunity Data Posted Pursuant to the No Fear Act + Information-Dissemination Priorities and Inventories	+ Privacy Policy and Important Notices + USA.gov + ExpectMore.gov + Multimedia Browser Plug-Ins + Comments or Questions?
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Users will be notified by e-mail when their order is ready. They can also check the status of their order by using **My Orders** and **Order Status**.
Downloading data can be made via http or ftp.

Order Status

 **View Order Details**

[Data Products Page](#) | [Change Password](#) | [Log Out](#) | [Help](#)

Alert: This is a test and QC site for internal use only. Please order data from <http://ceres-tool.larc.nasa.gov/ord-tool/>

Selection Page My Orders Order Status

Order CERES_2012-10-18:194 Status

Item	Product Info	Satellite	Temporal Range	Spatial Coverage	Order Status	Number Of Files	Completed Files	Processing Files	Failed Files	Order Size	Estimated Order Size
1	CERES_SYN1deg-Lite_Ed2.6	TERRA	03/2000 to 06/2012	REGIONAL - Subset	waiting in queue	8	0	0	0	0.0 bytes	13.08 GB
2	CERES_SYN1deg-Lite_Ed2.6	TERRA	03/2000 to 06/2012	REGIONAL - Subset	waiting in queue	1	0	0	0	0.0 bytes	421.98 MB
3	CERES_EBAF-TOA_Ed2.6r	-	01/CLIM to 12/CLIM	REGIONAL - Subset	waiting in queue	1	0	0	0	0.0 bytes	18.66 MB
										0.0 bytes	13.52 GB

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Data Ordering Page Summary

 **CERES_SYN1deg-Day_Terra-Aqua-MODIS_Ed3A**

[Data Products Page](#) | [Change Password](#) | [Log Out](#) | [Help](#)

[Return to Order Status](#)

- Order Summary: CERES_2012-10-18:303 , 785 -

Satellite:	TERRA-AQUA	Spatial Resolution:	REGIONAL
Time Range:	03/2000 - 11/2011	Temporal Resolution:	Daily (every day)
Number of Parameters:	11	Number of Files:	7
Total file size:	-		

Files

You will receive an e-mail with instructions when your order is ready. Files older than 2 days will be deleted.

File Number	Time Range	File Size	Parameter Dimensions	Created on: Date and Time	Action
1	03/2000 - 11/2001	1.82 GB	360x180x640	2012-10-18 15:53:16.0	Download
2	12/2001 - 08/2003	-	360x180x639	-	processing
3	09/2003 - 05/2005	-	360x180x639	-	processing
4	06/2005 - 02/2007	-	360x180x638	-	waiting in the queue
5	03/2007 - 11/2008	1.82 GB	360x180x641	2012-10-18 15:56:04.0	Download
6	12/2008 - 08/2010	-	360x180x639	-	waiting in the queue
7	09/2010 - 11/2011	-	360x180x456	-	waiting in the queue

Dimensions

Number	Name	Standard Name	Size	Comment
1	lon	Longitude	360	Starts at 0.5; proceed east at 1.0° resolution; Ends at 359.5.
2	lat	Latitude	180	Starts at -89.5; proceed north at 1.0° resolution; Ends at 89.5.
3	time	Time	4292	Julian Days since 03/2000 (selected as every day). As the sum of all files.

Parameters

Number	Name	Description	Unit	Min	Max
0	Observed TOA Shortwave Flux - All-sky	W m ⁻²	0	1400	
1	Observed TOA Shortwave Flux - Clear-sky	W m ⁻²	0	1400	
2	Observed TOA Longwave Flux - All-sky	W m ⁻²	0	500	
3	Observed TOA Longwave Flux - Clear-sky	W m ⁻²	0	500	
4	Observed TOA Window-region Flux - All-sky	W m ⁻²	0	200	
5	Observed TOA Window-region Flux - Clear-sky	W m ⁻²	0	200	
6	Observed TOA Net Flux - All-sky	W m ⁻²	-400	400	
7	Observed TOA Net Flux - Clear-sky	W m ⁻²	-400	400	
8	Observed TOA Albedo - All-sky	1	0	1	
9	Observed TOA Albedo - Clear-sky	1	0	1	
10	Observed TOA Solar Insolation Flux - All-sky	W m ⁻²	0	1400	

Data File Read Software

[Download IDL reader](#) [Download FORTRAN reader](#)

Product Statement

- CERES_SYN1deg-Day/Month_Ed3A -

Product Description:
The CERES_SYN1deg_Ed3A provides CERES-observed geostationary (GEO) enhanced temporally interpolated (diurnally complete) TOA fluxes, MODIS and 3-hourly GEO cloud properties, MODIS aerosols, and computed TOA surface and in-atmospheric (profile) fluxes consistent with the observed TOA fluxes, clouds and aerosols. The Edition3A product is not satellite-specific; it has combined the Terra and Aqua CERES observed fluxes and cloud retrievals. More information can be obtained here: [CERES-SYN1deg](#).

Product Data Quality Summary:
For a Data Quality Summary for this product and for a list of references, please [click here](#).

Product Attribution:
The CERES Team has made considerable efforts to remove major errors and to verify the quality and accuracy of this data. Please provide a reference to the following paper when you publish scientific results with the CERES SYN1deg_Ed3A data set:
Weihski, B. A., B. R. Barkstrom, E. F. Harrison, R. B. Lee III, G. L. Smith, and J. E. Cooper, 1996: Clouds and the Earth's Radiant Energy System (CERES): An Earth Observing System Experiment, *Bull. Amer. Meteor. Soc.*, **77**, 853-868. doi: 10.1175/1520-0477(1996)077<0853:CATERE>2.0.CO;2

NASA Official: David Deering
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+ Freedom of Access to Information Act
+ Multimedia Browser Plug-ins
+ Comments or Questions?

It shows the number of files and sizes, number of parameters orders and dimension variables.

IDL and FORTRAN readers (for starters) are provided.

A product statement with links to data product catalogs is available.

Visualizing Data

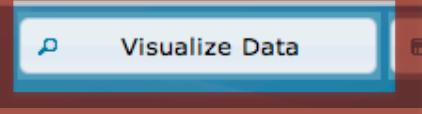
Time Range

Available Time Range: 3/1/2000 to 12/31/2011.

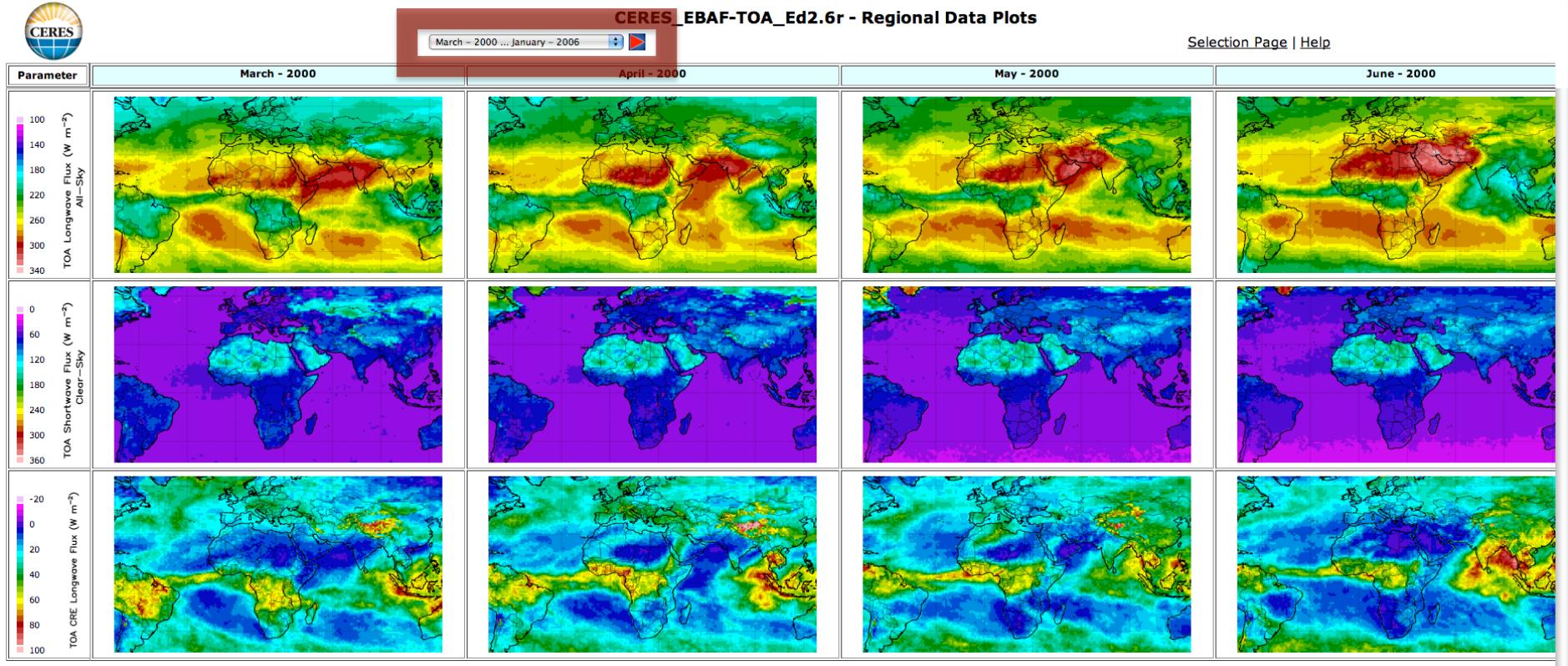
From: - (MM-YYYY) To: - (MM-YYYY)

Email Address

By providing your email address you will be informed of any future revisions of your download, product releases, newsletters, etc.

 **Visualize Data**
(for orders less than 2 GB)

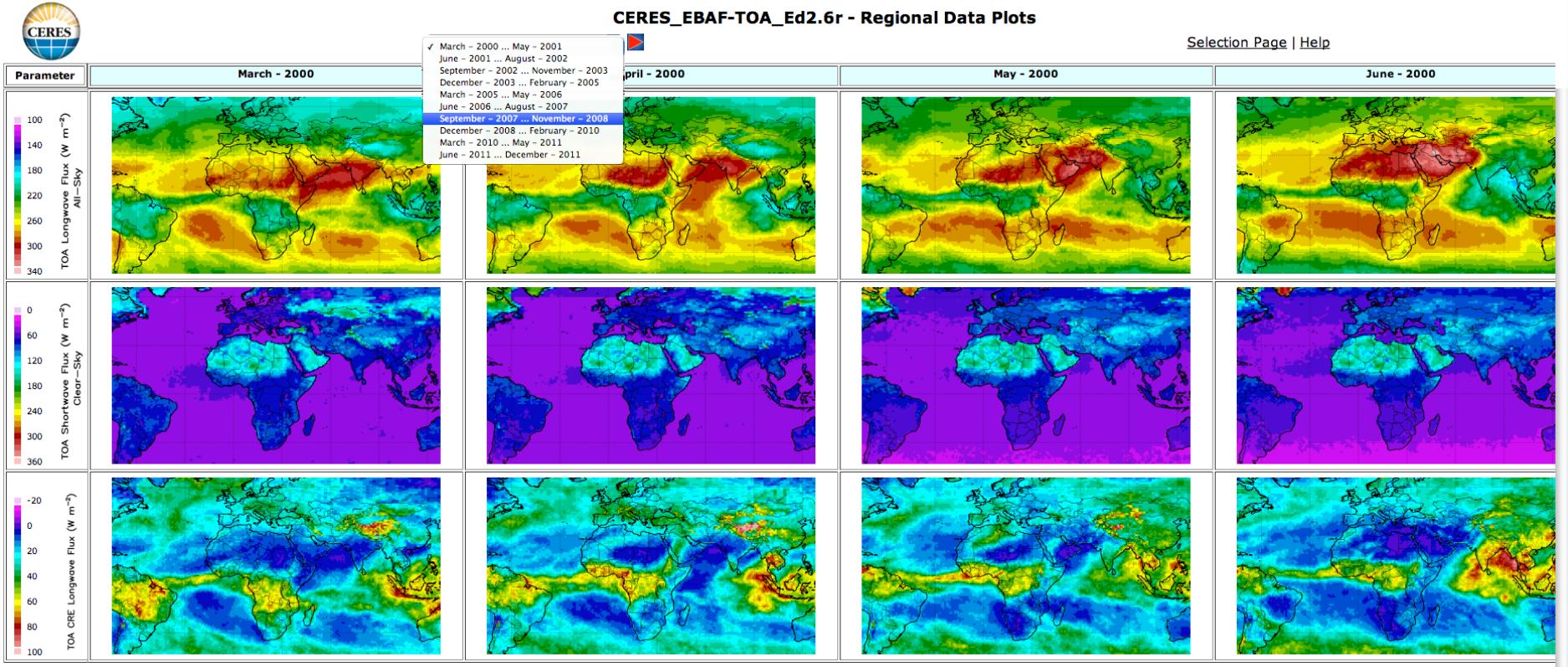
Regional Plots



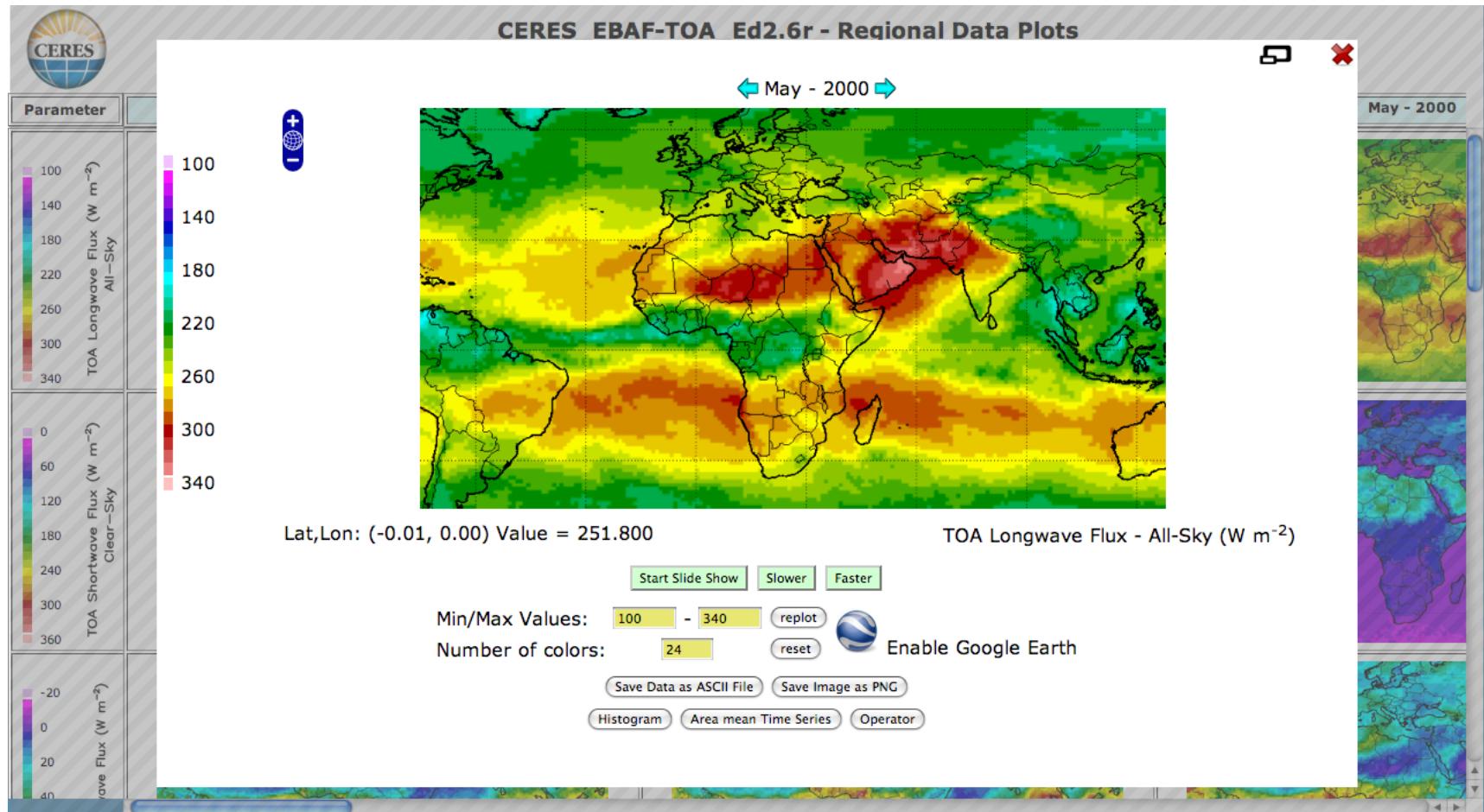
It shows a two-dimensional array of images ordered by parameter name and time (date).

The user can shuffle through entire time range, or jump to a specific date range.

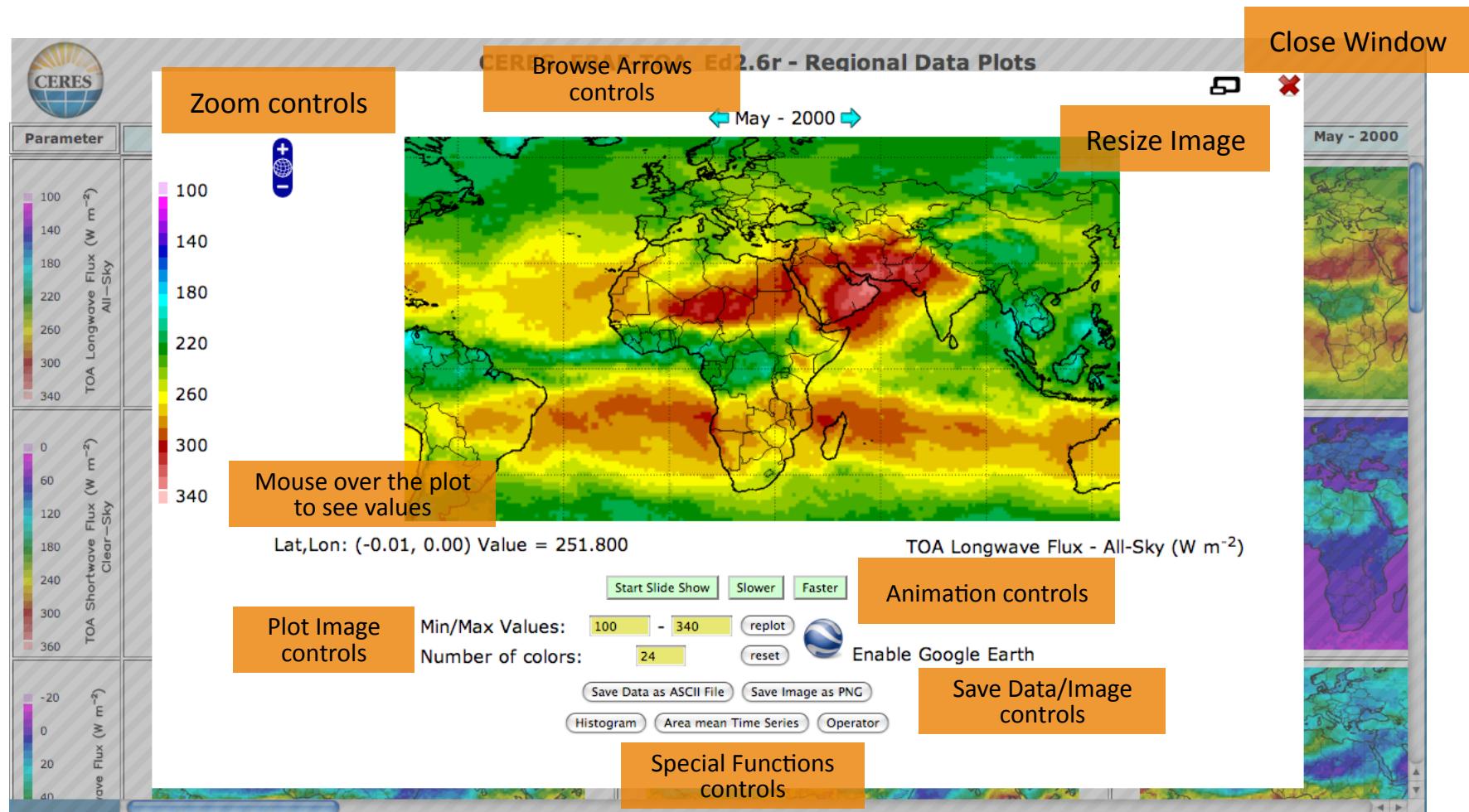
Regional Plots



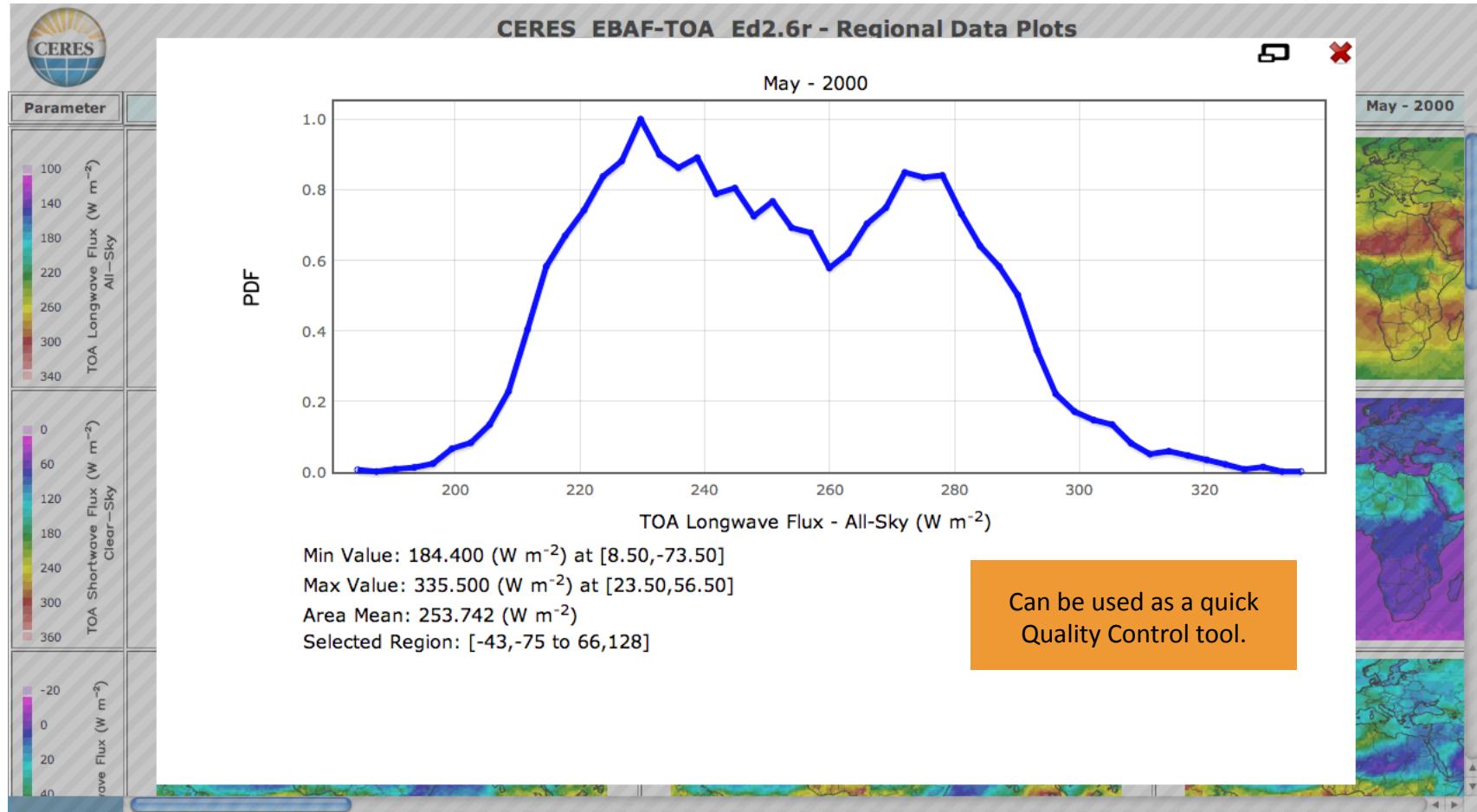
Individual Image Example



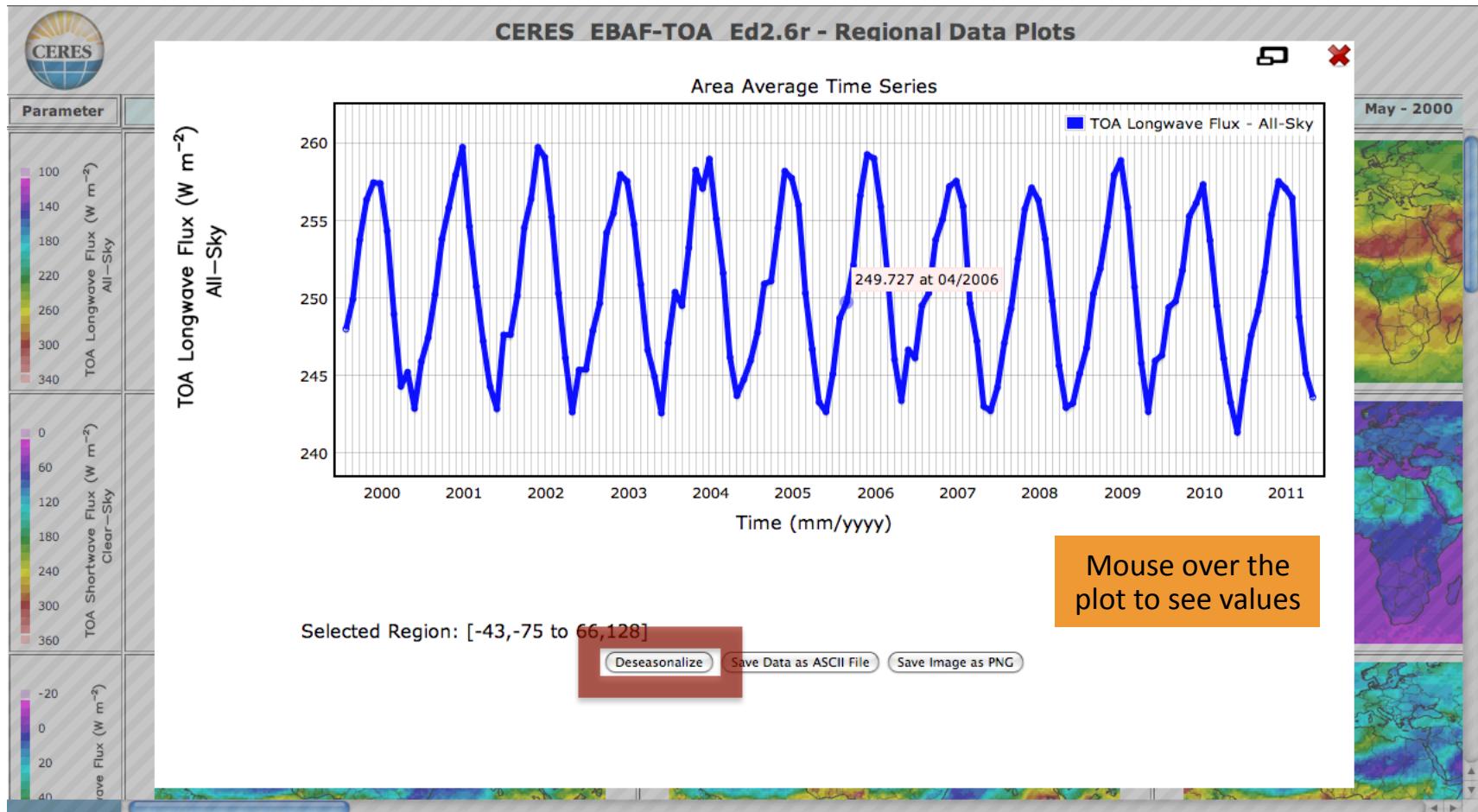
Individual Image Example



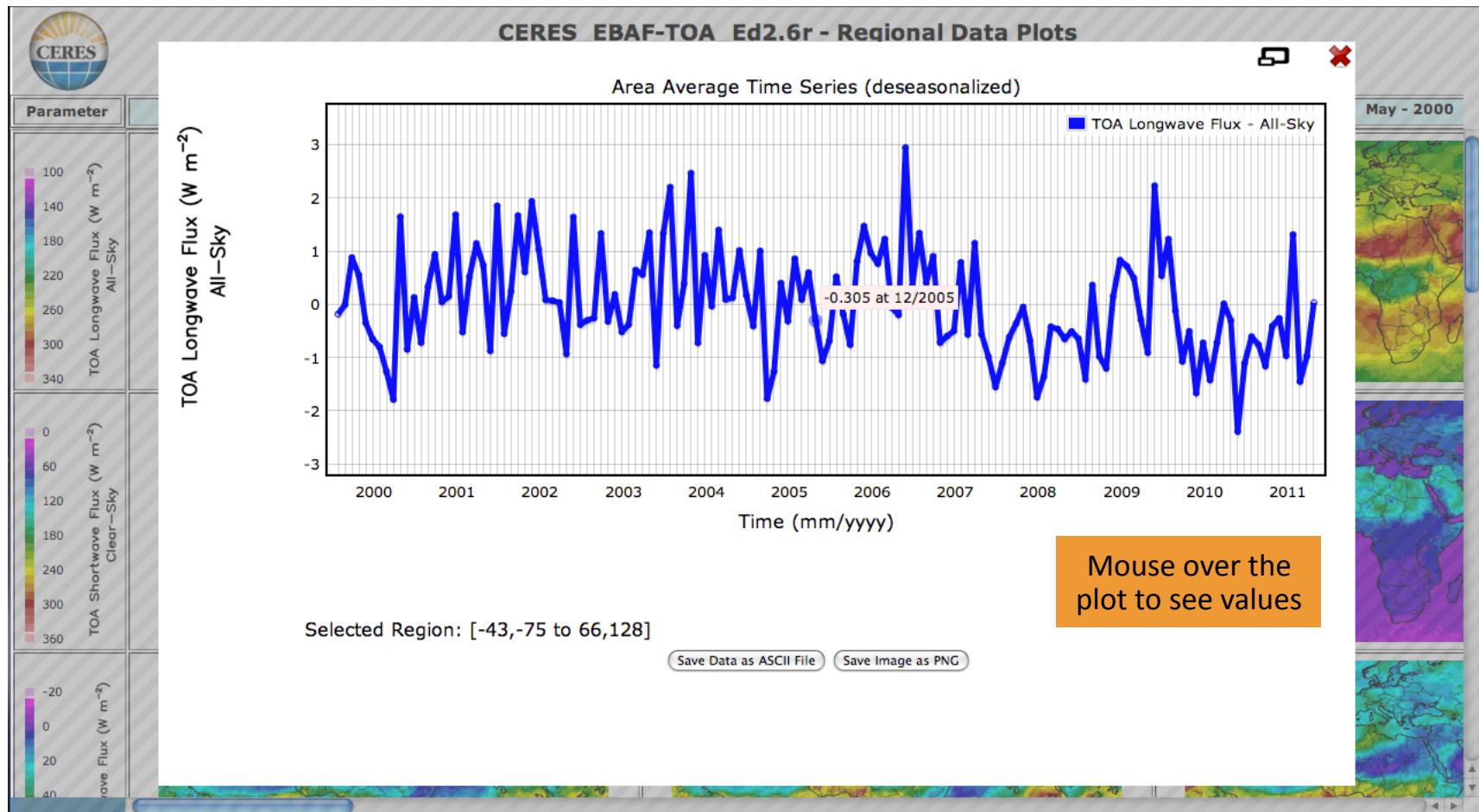
(Area Weighted) Histogram Example



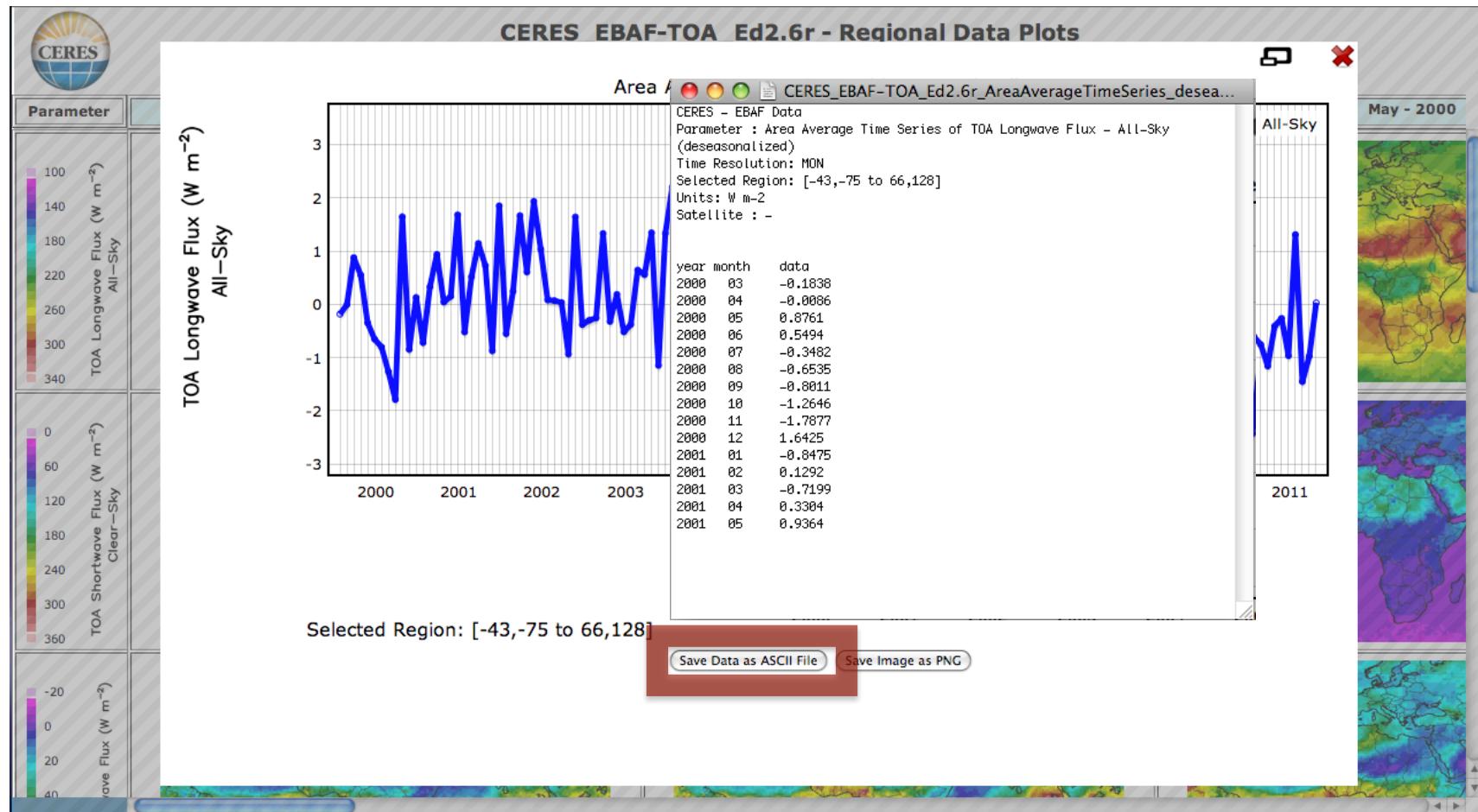
Area Mean Time Series Example



Deseasonalize Example



Save Data as ASCII Example



Operator: 2-nd Parameter Example

CERES_EBAF-TOA_Ed2.6r - Regional Data Plots

** 2-nd Parameter Selection Page **
First Selected Parameter: TOA Longwave Flux - All-Sky (EBAF)

Please Select Second CERES Product, Parameter, and Date:

CERES Products:

EBAF - TOA EBAF - Surface SSF1deg Lite SYN1deg Lite SYN1deg

Parameters:

	All Sky	Clear Sky
Shortwave Flux	<input type="checkbox"/>	<input type="checkbox"/>
Longwave Flux	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Window-region Flux	<input type="checkbox"/>	<input type="checkbox"/>
Net Flux	<input type="checkbox"/>	<input type="checkbox"/>
Albedo	<input type="checkbox"/>	<input type="checkbox"/>
Solar Insolation Flux	<input type="checkbox"/>	N/A
Number of Observations of TOA SW Flux	<input type="checkbox"/>	<input type="checkbox"/>
Number of Observations of TOA LW Flux	<input type="checkbox"/>	<input type="checkbox"/>

Cloud Parameters [Click to select individual parameters](#)

Auxiliary Data [Click to select individual parameters](#)

Satellites:

TERRA AQUA

Date:

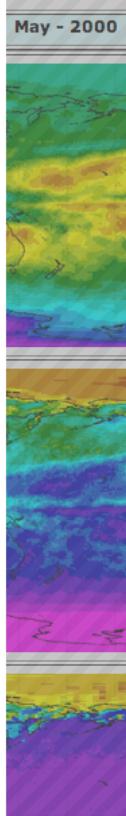
MM/YYYY (MM/YYYY) is default; it indicates the "current" date. For EBAF data, YYYY can also be entered as CLIM for climatology
(e.g. MM/CLIM). [Click to get more info.](#)

Field Anomalies 2D-Histogram

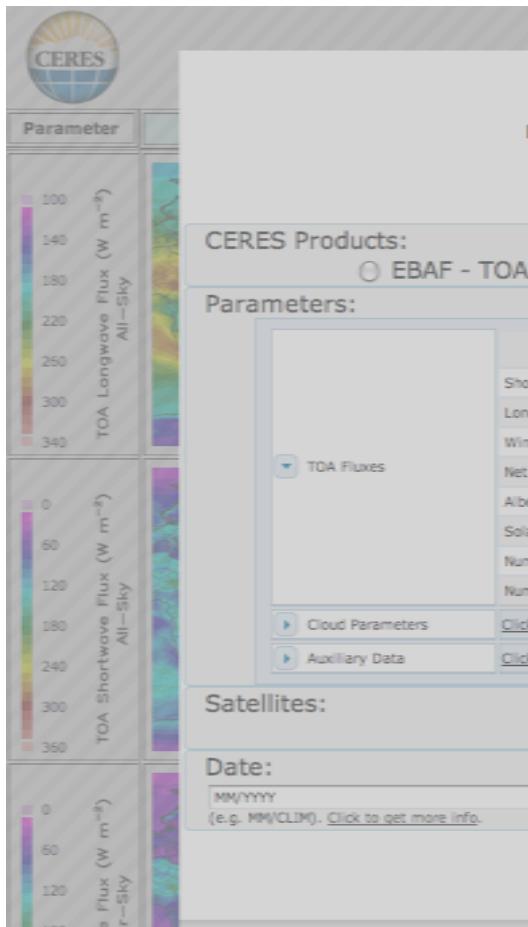
Choices for Date

Select a parameter form available CERES products

Two Functions are being offered for the moment.



Choices for “Date:”



Single Dates:

- 1: MM/YYYY - as defined by the current view.
- 2: MM/CLIM - as above but using CLIM data.
- 3: 07/2005 - fixed date.

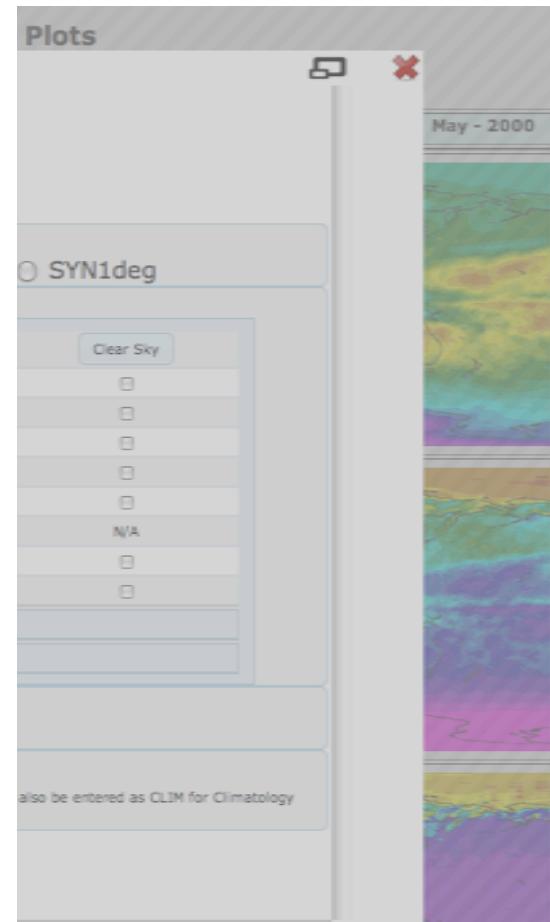
Averaged Dates:

1. <MM+-m>/<YYYY+-y> “Running” average.
2. <03-10>/<2005-2008> Fixed interval average.
3. <MM+-m>/<2002-2004> “Running month” average.
4. <MM+-m>/<CLIM> “Running month” average using CLIM.
5. <03-07>/<YYYY+-y>
6. <07/2004-12/2010> Fixed dates interval.
7. <3M>/<a_year_option> “3 month season” average: DJF, MAM, JJA, SON for the years that are indicated

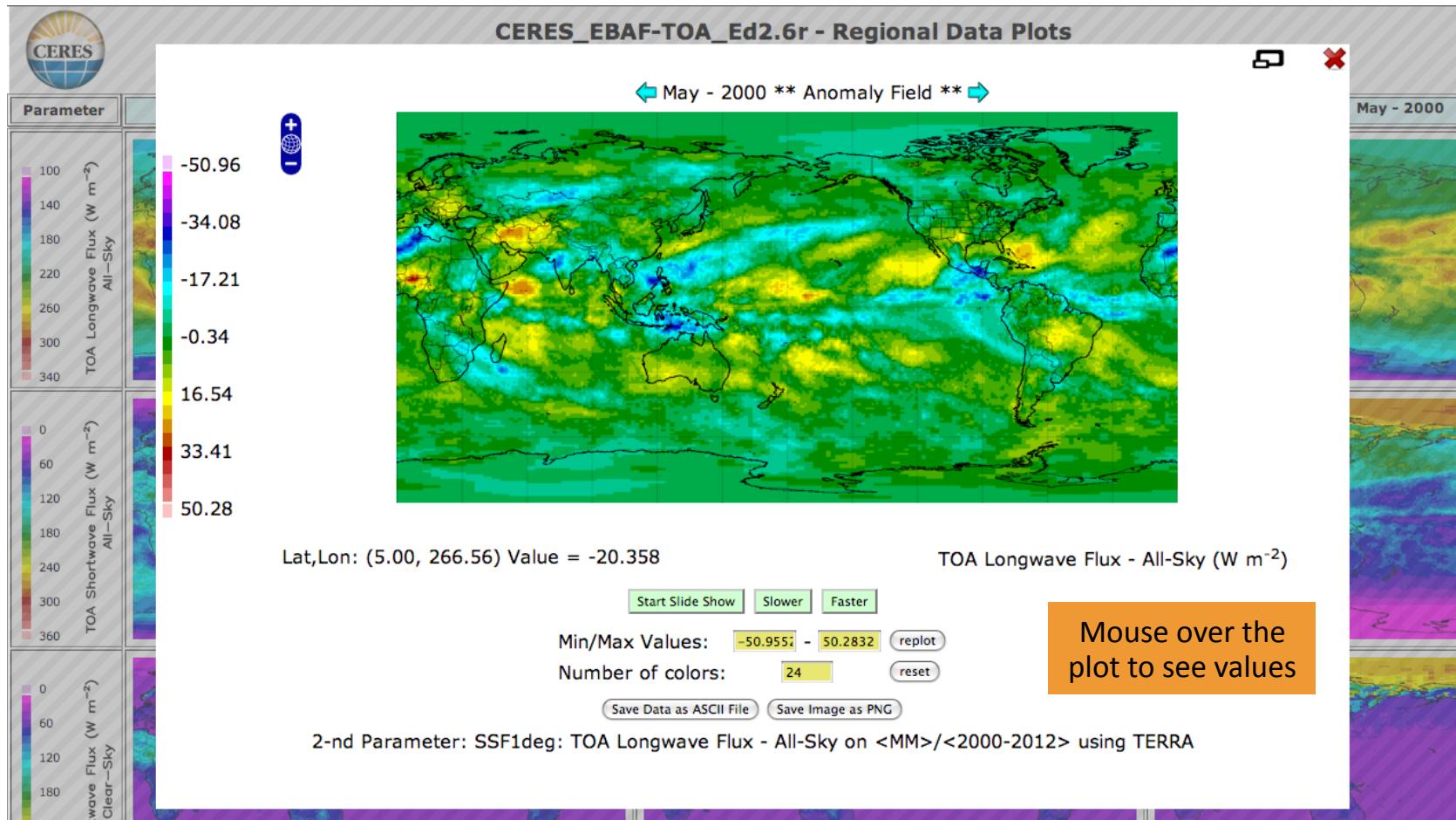
The EXCLUDE option (applicable only for Averaged Dates)

The user can EXCLUDE a specific time range interval for any of the above average dates (except for CLIM data or when YYYY symbol is used). Examples:

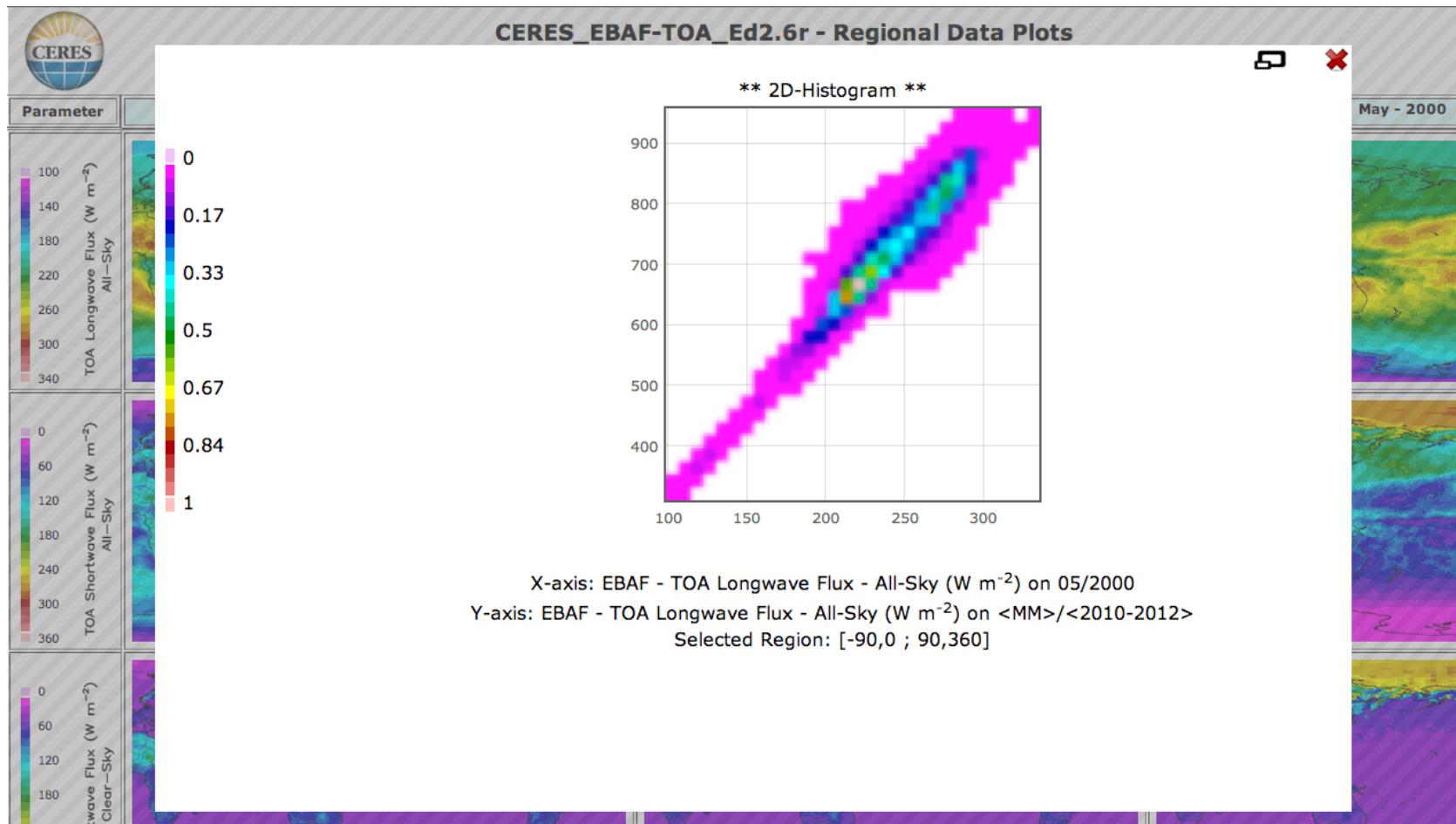
<07/2000-12/2010> EXCLUDE <02/2001-10/2006>
<MM+-2>/<2005-2008> EXCLUDE <09/2005-09/2005>



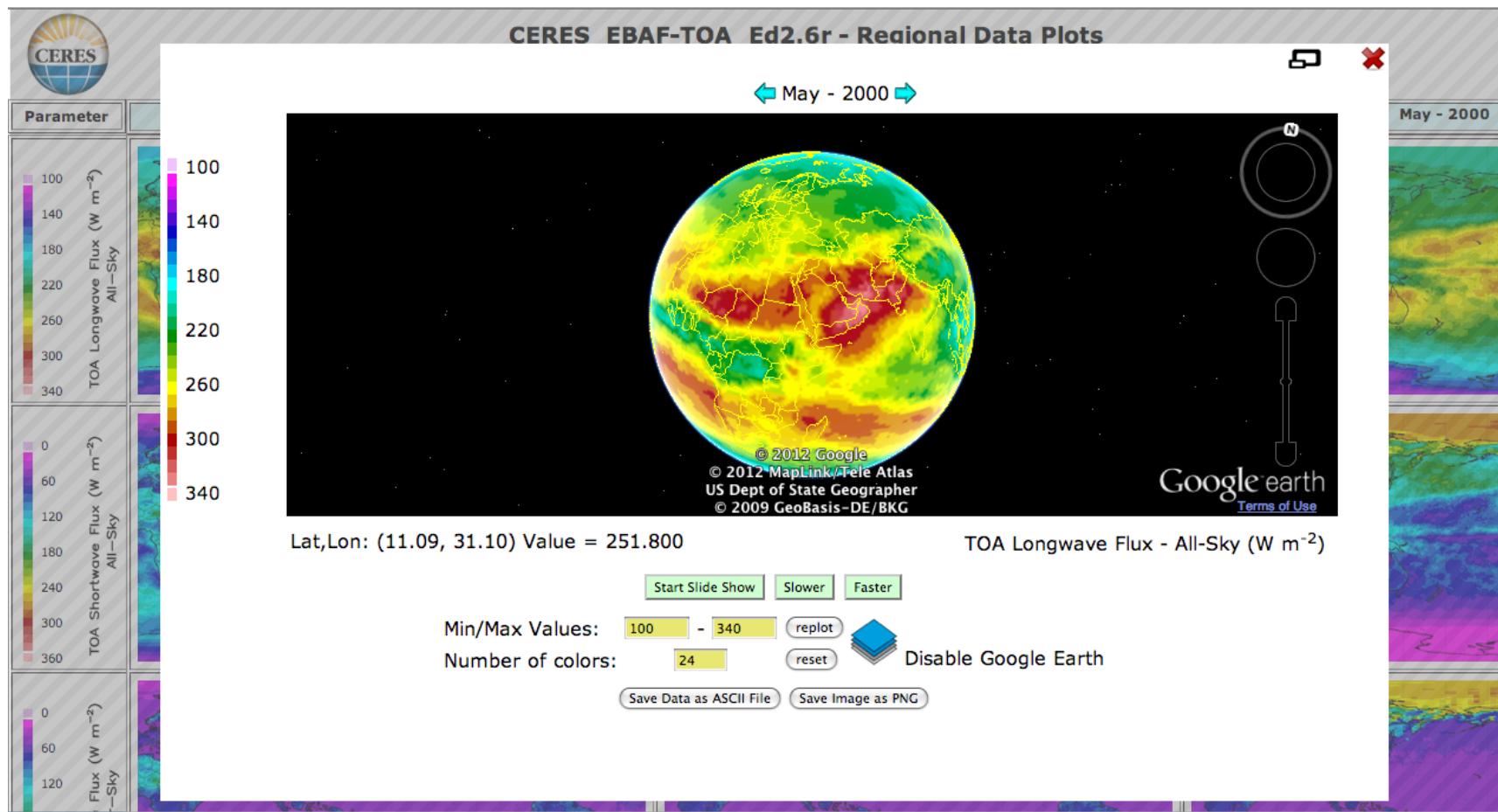
Anomaly Example



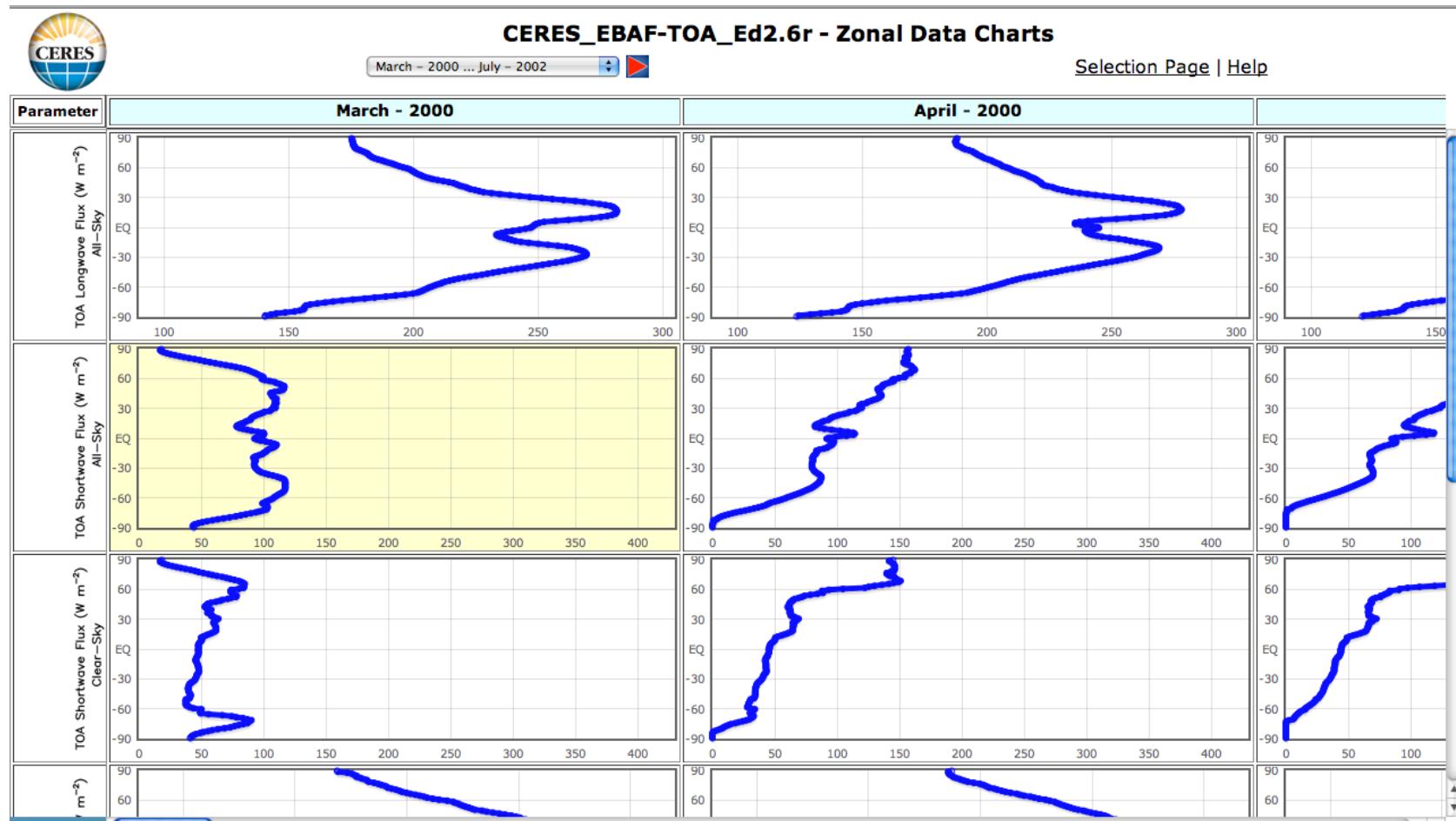
2D-Histogram Example



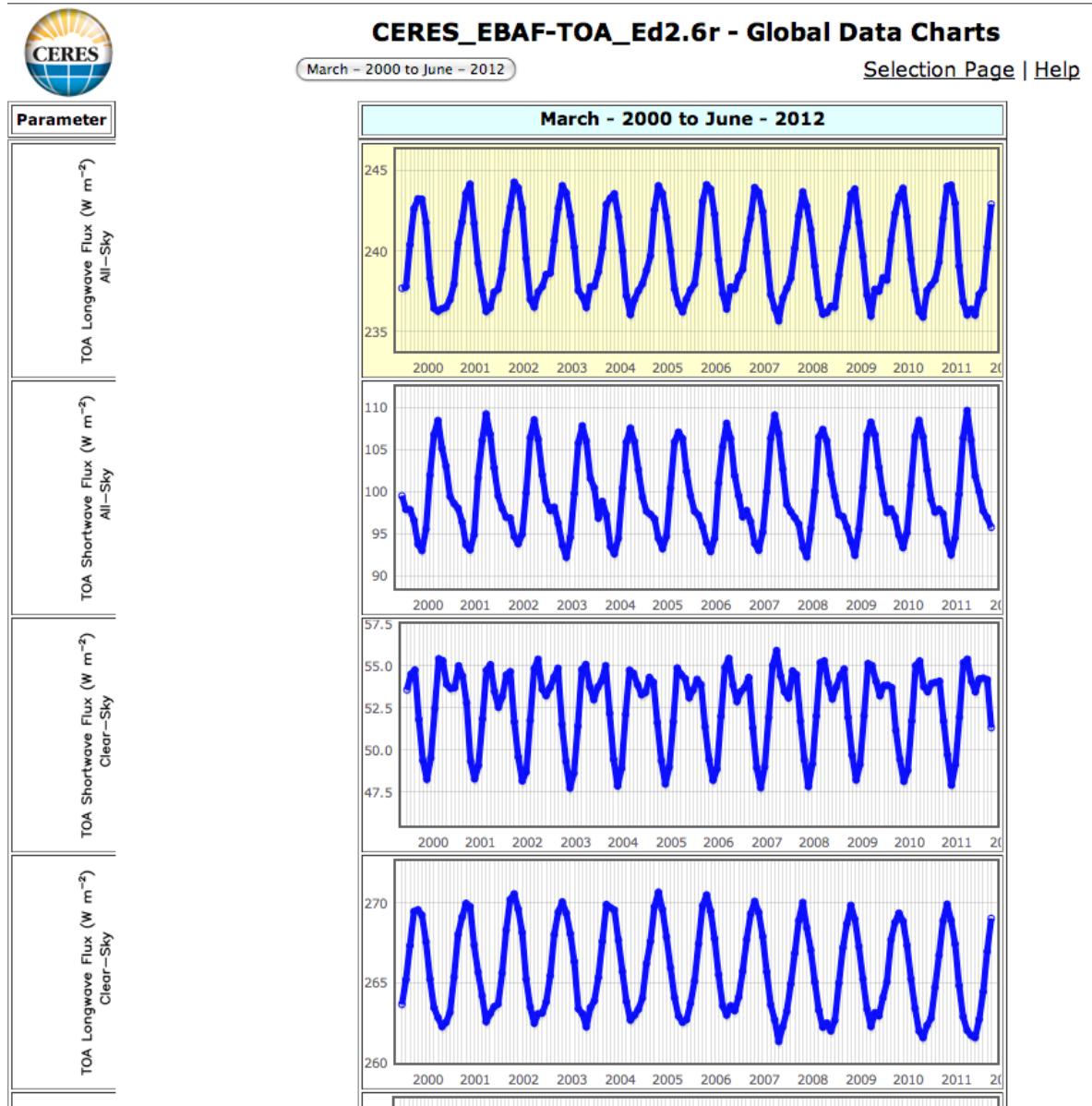
Google Earth Example



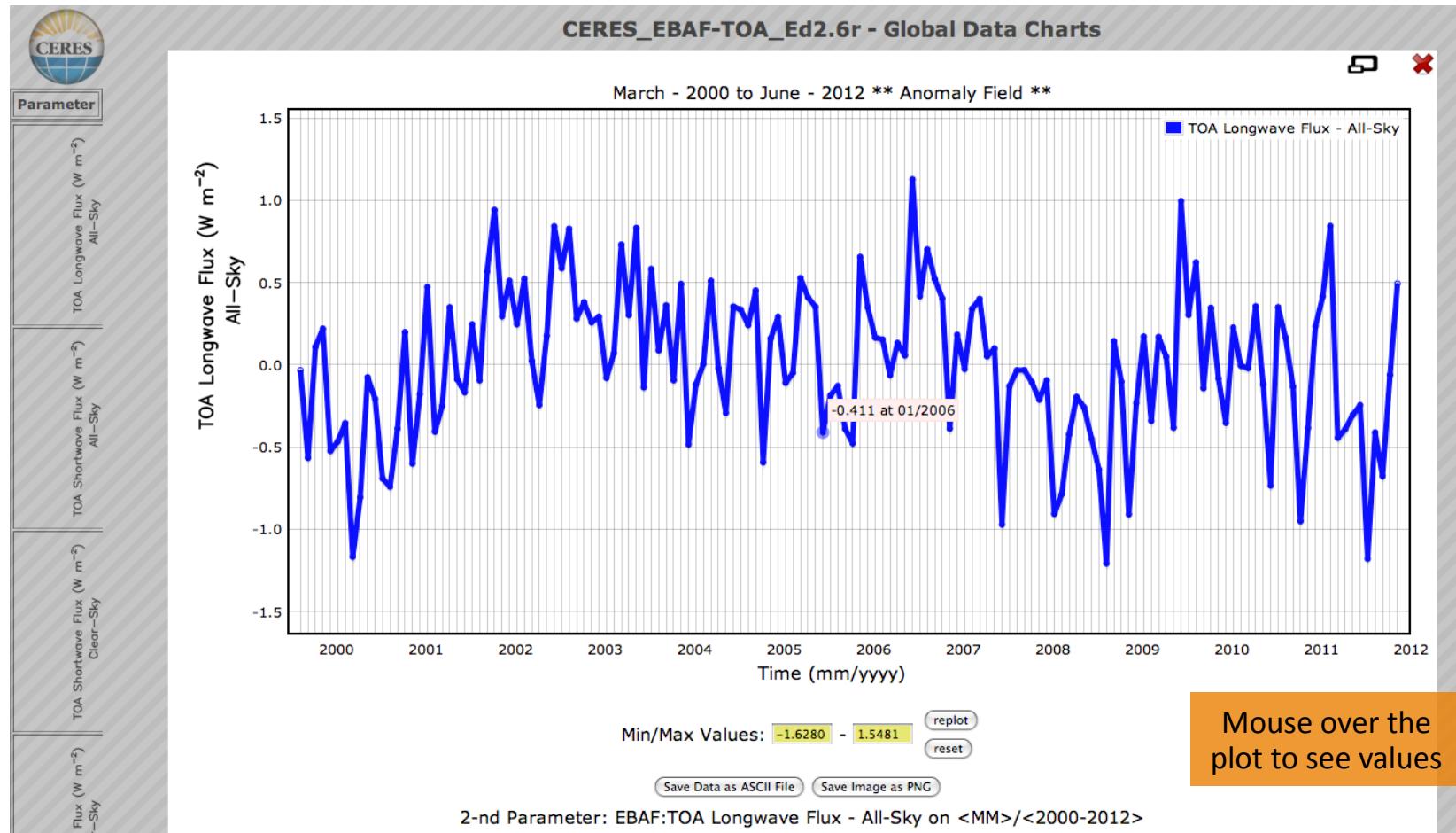
Zonal Plots



Global Plots



Global Plots – Anomaly Example



Level 2 (footprint) data visualization

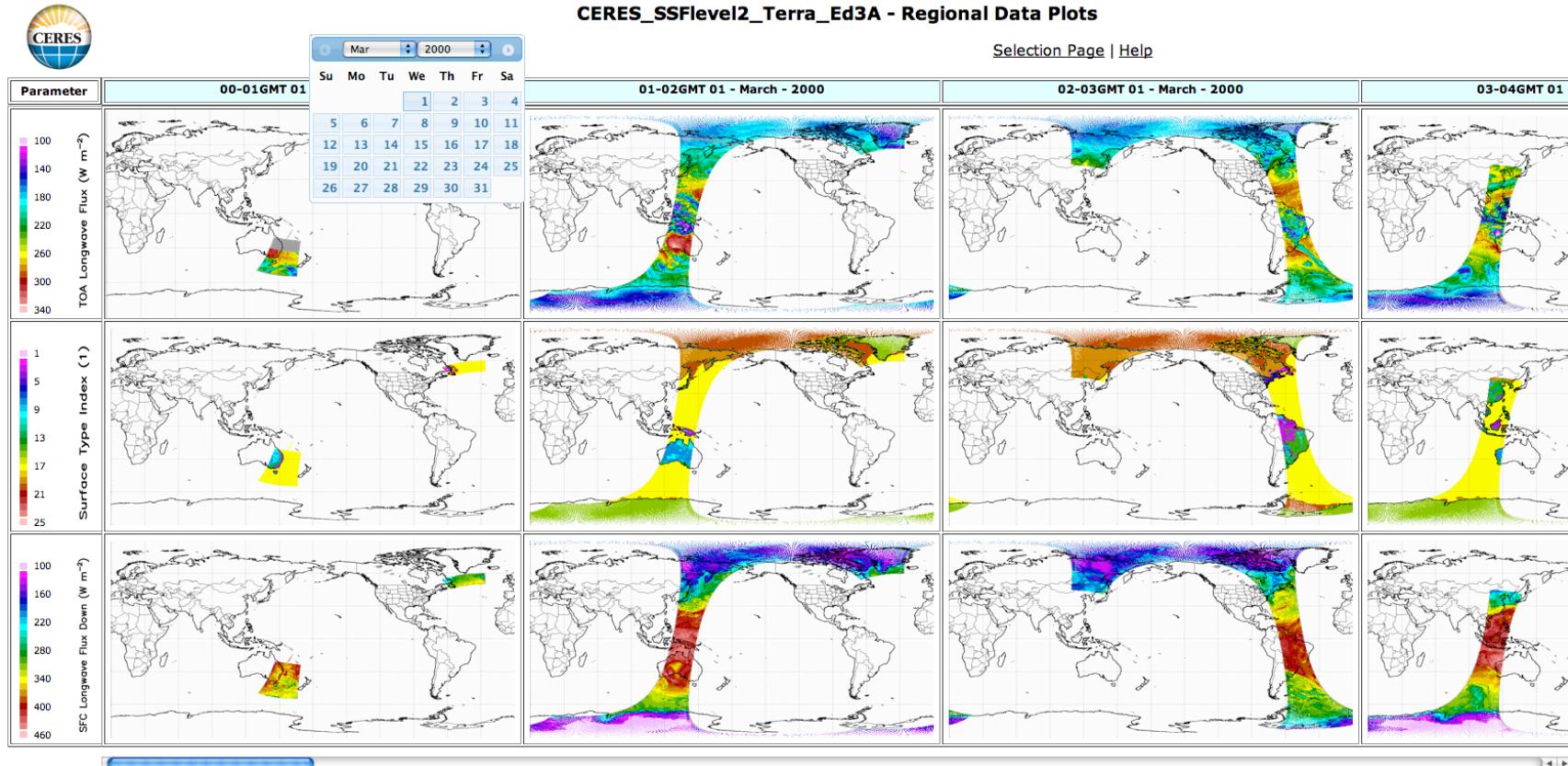
The screenshot shows the CERES SSF-level2 Subsetting and Browsing interface. At the top, there is a logo for CERES and navigation links: Data Products Page, Change Password, Log Out, and Help.

The main area is divided into sections:

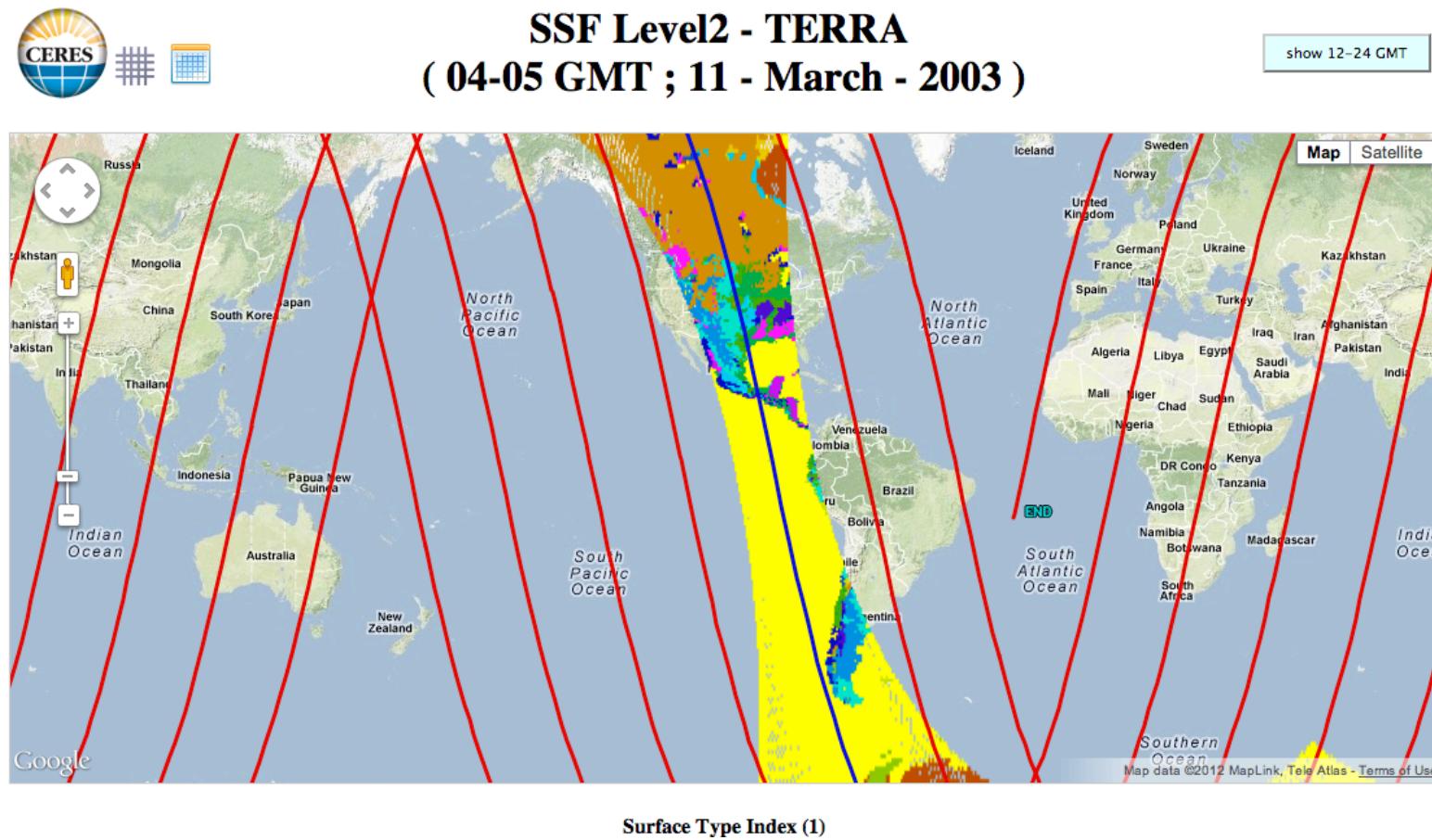
- Parameters:** A list of data categories with checkboxes and "Click to select individual parameters" links.
 - Time/Location/Angles
 - CERES Observed TOA Fluxes and Radiances
 - Surface Fluxes (selected)
 - Surface Parameters (selected)
 - GEOS-5 Atmosphere Parameters
 - Cloudy Footprint Area
 - MODIS Land Aerosols
 - MODIS Ocean Aerosols
- Spatial Resolution:** Options for footprint selection and coordinate input.
 - Footprint (20 km nominal) (radio button selected)
 - North: 90
 - West: 0
 - reset
 - East: 360
 - 90
 - South

Gridded Plots for level2 Data

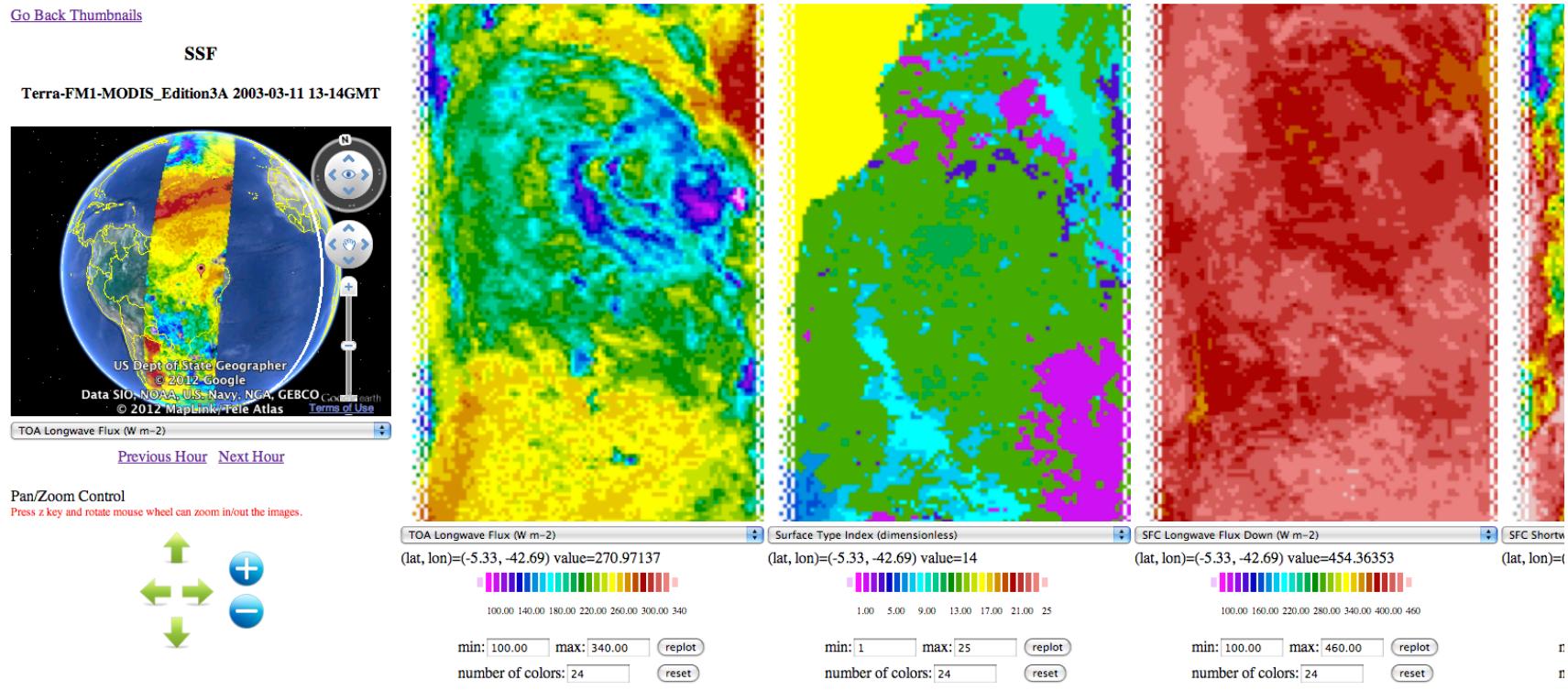
A calendar function
enables users to go to
a different date.



Orbit track using Google Map



Synchronized Level2 Scan Plots



Mouse over the plot to see values and locations; interchange images.

Additional Remarks

- The Ordering Tool needs to meet all security requirements. And so far it does.
- During the NASA LaRC hacking incident, we were (the only ones) up and running.
- We are moving toward developing more “scientific-like” applications (something like McIdas, Terascan) to provide scientist a fast and easy tool to investigate their data.